

Docket No.: 21058/0206773-US0  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Mineo Yamakawa et al.

Application No.: 10/748,389

Confirmation No.: 8159

Filed: December 29, 2003

Art Unit: 1743

For: MICROFLUID MOLECULAR-FLOW  
FRACTIONATOR AND BIOREACTOR WITH  
INTEGRATED ACTIVE/PASSIVE  
DIFFUSION BARRIER

Examiner: P. K. Wright

**AMENDMENT IN RESPONSE TO NON-FINAL OFFICE ACTION**

MS Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

**INTRODUCTORY COMMENTS**

In response to the Office Action dated May 15, 2007, please consider the following amendments and remarks. It is believed that no other fee(s) is required for this submission. Should, however, the U.S. Patent and Trademark Office determine that any other fee(s) is due or that any refund is owed for this application, the Commissioner is hereby authorized and requested to charge the required fee(s) and/or credit the refund(s) owed to our Deposit Account No. 04-0100.

**Amendments to the Specification** begin on page 3 of this paper.

**Amendments to the Claims** are reflected in the listing of claims which begins on page 4 of this paper.

Application No. 10/748,389  
Amendment dated August 15, 2007  
Reply to Office Action of May 15, 2007

Docket No.: 21058/0206773-US0

**Amendments to the Drawings** begin on page 11 of this paper and include attached replacement sheets.

**Remarks/Arguments** begin on page 12 of this paper.

An **Appendix** including amended drawing figures is attached following page 18 of this paper.